Listing of the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Please amend the claims as follows:

1. (Currently Amended) A method of forming a bone composite, comprising: providing bone tissue;

grinding said bone tissue to form osteoinductive ground bone tissue <u>in</u> particle form;

molding the osteoinductive ground bone tissue into a bone composite; applying a binder to the bone composite; and

curing the bone composite into a <u>self-support</u>, solid structure that will maintain <u>solid structure</u> <u>rigid form before and</u> after <u>surgical implantation</u> <u>hydration</u>.

- 2. (Original) The method of claim 1, wherein the bone tissue is substantially cortical bone tissue.
- 3. (Original) The method of claim 2, wherein the bone tissue is substantially demineralized.

2

- 4. (Original) The method of claim 2, wherein the bone tissue is greater than 50% cortical bone tissue.
- 5. (Original) The method of claim 2, wherein the bone tissue is greater than 70% cortical bone tissue.
- 6. (Original) The method of claim 1, wherein the ground bone tissue is greater than 90% cortical bone tissue.
- 7. (Original) The method of claim 1, wherein the ground bone tissue is greater than 95% cortical bone tissue.
- 8. (Previously Presented) The method of claim 1, wherein the ground bone tissue is ground to a size ranging from 125 to 850 microns in size.
- 9. (Original) The method of claim 1, wherein the molding step occurs at from 14.7 p.s.i. to about 30,000 p.s.i.

- 10. (Original) The method of claim 1, wherein the binder is applied to the ground bone before the molding step.
- 11. (Original) The method of claim 1, where the binder is applied to the ground bone after the molding step.
- 12. (Original) The method of claim 1, wherein the binder is applied by an injection, spray, bath, soaking or layering.
- 13. (Original) The method of claim 1, wherein the binder comprises fibrin.
- 14. (Original) The method of claim 1, wherein the binder comprises cyanoacrylates.
- 15. (Previously Presented). The method of claim 14, wherein the cyanoacrylates comprise ester chain, N-butyl, or butyl cyanoacrylates.
- 16. (Previously Presented). The method of claim 14, wherein the cyanoacrylates are long chain cyanoacrylates.

- 17. (Currently Amended) The method of claim 1, wherein the bone composite solid structure is a bone pin, screw or prosthesis.
- 18. (Original) The method of claim 1, wherein the molding step further comprises the application of pressure and shaping the composite with a die.
- 19. (Withdrawn) An implantable bone tissue composite, comprising:

 ground bone tissue including an organic matrix and substantially cortical
 bone tissue, the bone tissue molded to form a desired solid shape, and
 a binder selected from at least one of a cyanoacrylate or fibrin.

20. (Canceled).

- 21. (Withdrawn) The bone tissue composite of claim 19, wherein the bone tissue is more than 50% cortical bone tissue.
- 22. (Withdrawn) The bone tissue composite of claim 19, wherein the bone tissue is more than 70% cortical bone tissue.

- 23. (Withdrawn) The bone tissue composite of claim 19, wherein the bone tissue is more than 90% cortical bone tissue.
- 24. (Withdrawn) The bone tissue composite of claim 19, wherein the bone tissue is more than 95% cortical bone tissue.
- 25. (Withdrawn) The bone tissue composite of claim 19, wherein the ground bone tissue is from 125 to 850 microns in size.
- 26. (Withdrawn) The bone tissue composite of claim 19, wherein the desires shape is molded at from 14.7 psi to about 30,000 psi.
- 27. (Withdrawn) The bone tissue composite of claim 19, wherein the binder comprises fibrin.
- 28. (Withdrawn) The bone tissue composite of claim 19, wherein the binder comprises cyanoacrylates.
- 29. (Withdrawn) The bone tissue composite of claim 19, wherein the cyanoacrylates comprise ester chain, N-butyl, or butyl cyanoacrylates.

- 30. (Withdrawn) The bone tissue composite of claim 19, wherein the cyanoacrylates are long chain cyanoacrylates.
- 31. (Withdrawn) The bone tissue composite of claim 19, wherein the bone composite is a bone pin, screw or prosthesis.
- 32. (Currently Amended) A method of forming an implantable bone composite structure, comprising:

providing bone tissue,

grinding said bone tissue to a size of from 125 to 850 microns in size to form ground bone tissue,

molding the ground bone tissue under pressure to form a bone composite structure,

introducing a cyanoacrylate binder to the bone composite, and

allowing the bone composite to solidify into a <u>self-supporting</u>, force bearing solid structure that will maintain a <u>solid structure rigid form before and</u> after <u>surgical implantation hydration</u>.